

HSA-275/1+1

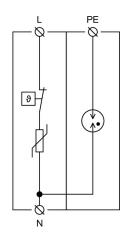
- Surge arresters type T2+T3 ensure the equipotential bonding and reduce switching, induced and residual overvoltage in LV power supply systems.
- The products consist of varistors with big discharge ability.
- In 1+1 and 3+1 configurations they are additionaly combined with a gas discharge tube, which ensures zero leakage current through the PE conductor.
- Installed at the boundaries of LPZ 1 LPZ 3 into subsidiary switchboards and control panels.
- If the product contains two PE (or PEN) terminals, it must not be used as a PE (PEN) bridge.
- M indication specifies a type of construction with removable module.
- **S** indication specifies a version with remote monitoring.

Туре		HSA-275/1+1
Test class according to EN 61643-11:2012 (IEC 61643-11:2011)		T2, T3
System		TN-S, TT
Number of poles		2
Rated operating AC voltage	U_N	230 V
Maximum continuous operating voltage AC	U _c	275 V
Maximum discharge current (8/20)	I _{max}	50 kA
Nominal discharge current for class II test (8/20)	I _n	20 kA
Open circuit voltage of the combination wave generator	U _{oc}	6 kV
Total discharge current (8/20) L+N->PE	I _{Total}	50 kA
Voltage protection level at I _n (L/N)	U_p	< 1.2 kV
Voltage protection level at I _n (N/PE)	U _p	< 1.3 kV
Voltage protection level at U _{OC} (L/N)	U_p	< 0.8 kV
Impulse discharge current for class I test (10/350) N/PE	I _{imp}	20 kA
Temporary overvoltage test value (TOV) for $t_T = 5 \text{ s (L/N)}$	U _T	337 V
Temporary overvoltage test value (TOV) for $t_T = 0.2 s$ (N/PE)	U _T	1 200 V
Response time (L/N)	t _A	< 25 ns
Response time (N/PE)	t _A	< 100 ns
Maximal back-up fuse		160 A gL/gG
Short-circuit current rating at maximum back-up fuse	I _{sccr}	60 kA _{rms}
Lightning protection zone		LPZ1, LPZ2, LPZ3
Housing material		Polyamid PA6, UL94 V-0
Degree of protection		IP20
Operating temperature	Э	-40 ÷ 70 °C
Minimum cross-section of connected Cu conductors accord. to HD 60364-5-534:2016 (doesn't apply to $_{\mbox{\tiny N}}$ V" connection) for T2	S	2,5 mm ² (L, N) 6 mm ² (PE, PEN)
Clamp fastening range (solid conductor)		1.5 ÷ 25 mm²
Clamp fastening range (stranded conductor)		1.5 ÷ 16 mm²
Tightening moment		3 Nm
Installation		On DIN rail 35 mm



Туре		HSA-275/1+1
Modular width		2 TE
Operating position		Any
Signalling at the device		Optic
Importance of local signaling		OK – clear target FAULT – red target
Remote signalling		No
Modular design		No
Lifetime		> 100 000 h
Designed according to standards		
Requirements and test methods for SPDs connected to low-voltage power systems		IEC 61643-11:2011
Safety of Flammability of Plastic Materials		UL 94
Application standards		
Protection against lightning		IEC 62305:2010
Selection and erection of electrical equipment – Devices for protection against transient overvoltages		HD 60364-5-534:2016
Selection and application principles for SPDs connected to low-voltage power systems		IEC 61643-12:2008
Ordering, packaging and additional data		
Mass	m	190 g
Mass (including the packaging)	m	204 g
Packaging dimensions (H x W x D)		102 x 45 x 74 mm
Packaging value	V	0.34 dm ³
ETIM group		EG000021
ETIM class		EC000941
Customs tariff no.		85363010
EAN code		8590681115077
Art. number		24 528

Internal diagram



Application wiring diagram (installation)

